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one inch = one foot  
three quarters inch = one foot  
one and one half inches = one foot  
three inches = one foot  
four inches = one foot

ELECTRICAL GENERAL NOTES:

1. WORK INCLUDES INSTALLATION OF ALL ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL TO THE SATISFACTION OF THE OWNER AS LIMITED BY THE INTENT OF THE CONTRACT DOCUMENTS.
2. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), NATIONAL ELECTRICAL SAFETY CODE, ANSI/EIA/TIA, BICSI, AND ALL LOCAL RULES AND REGULATIONS.
3. PROVIDE COMPRESSION TYPE FITTINGS FOR EMT CONDUITS. SET SCREW FITTINGS ARE PROHIBITED AND WILL NOT BE APPROVED. PROVIDE GALVANIZED MALLEABLE IRON FOR ALL OTHER FITTINGS.
4. SIZE ALL CONDUIT PER THE NATIONAL ELECTRICAL CODE UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
5. PROVIDE SOLID COPPER, 600 VOLT INSULATION TYPE THHN, THWN POWER CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS #10 AND SMALLER.
6. PROVIDE AN INSULATED GREEN GROUNDING CONDUCTOR, SIZED PER THE NATIONAL ELECTRICAL CODE, FOR ALL CIRCUITS. INSTALL THIS CONDUCTOR IN ALL RACEWAYS INCLUDING THOSE INSTALLED FOR SWITCH LEGS AND ATTACH TO THE DEVICE, LUMINAIRE, OR EQUIPMENT USING A SUITABLE GROUNDING LUG.
7. PROVIDE AND INSTALL ALL JUNCTION AND PULLBOXES REQUIRED FOR THE INSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. SIZE BOXES PER THE NATIONAL ELECTRICAL CODE.
8. COORDINATE WITH OTHER TRADES AND CONFIRM THE EXACT EQUIPMENT LOCATIONS, AND MOUNTING HEIGHTS OF ALL POWER AND TELEPHONE DEVICES BEFORE ROUGHING IN.
9. SEAL ALL OPENINGS/PENETRATIONS THROUGH FIRE RATED WALLS AND SLABS USING A U.L. LISTED FIRE RATED SEALANT TO MAINTAIN THE INTEGRITY OF THE FIRE RATING.
10. SEAL AND PAINT ALL OPENINGS/PENETRATIONS THROUGH WALLS AND SLABS TO MATCH ADJACENT SURFACE.
11. OBTAIN APPROVAL FROM THE ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS OR FIRE RATED WALLS AND SLABS.
12. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER. DO NOT PROCEED UNTIL APPROVAL IS OBTAINED.
13. ALL SEVEN (7) NEW PANELS SHALL HAVE TYPED CIRCUIT DIRECTORIES REFLECTING THE CIRCUIT ARRANGEMENT AS IT WAS ACTUALLY INSTALLED PER NEC 408.4.
14. THE MINIMUM CONDUIT SIZE IS 3/4 INCH FOR INTERIOR ABOVE GRADE USE AND 1" FOR EXTERIOR UNDERGROUND USE. ACCEPTABLE CONDUITS FOR INTERIOR USE ARE EMT, GRS, IMC, LIQUID TIGHT FLEXIBLE METAL AND FLEXIBLE METAL CONDUITS. INTERIOR CONDUIT MOUNTED LESS THAN +10' AFF SHALL BE GALVANIZED STEEL RMC (GALVANIZED RIGID CONDUIT GRC). EXTERIOR CONDUITS SHALL BE GALVANIZED STEEL RMC (GALVANIZED RIGID CONDUIT, GRC). TYPE MC CABLE IS NOT ACCEPTABLE.
15. PER NEC 110, MANUFACTURERS ARE REQUIRED TO PROVIDE LABEL ON ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. ENSURE THAT ALL ELECTRICAL APPARATUS ARE PROVIDED WITH THIS LABEL.
16. PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.
17. ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
18. ALL ELECTRICAL PANELS SHALL BE FACTORY PAINTED WITH STANDARD LIGHT GRAY COLOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

DEMOLITION NOTES:

1. THE DEMOLITION PLAN IS INTENDED TO SHOW THE GENERAL SCOPE OF WORK AND DOES NOT NECESSARILY SHOW EVERY DEVICE, BOX, CONDUIT, PANEL, ETC. TO BE REMOVED. FIELD VERIFY OTHER ELECTRICAL SERVICES THAT MAY BE ENCOUNTERED DURING DEMOLITION AND REMOVE OR RE-ROUTE THESE ITEMS AS REQUIRED.
2. REMOVE EXISTING SURFACE MOUNTED PANELBOARDS, FRAMES AND ALL ASSOCIATED COMPONENTS INCLUDING BUT NOT LIMITED TO WIRING AND CIRCUIT BREAKERS. EXISTING FLUSH MOUNTED PANELBOARDS SHALL BE CONVERTED TO JUNCTION BOXES.
3. REMOVE ALL UNUSED WIRING FROM DEMOLITION AREA NOT CONCEALED IN CONCRETE OR PLASTER INCLUDING WIRING DISCONNECTED UNDER THIS CONTRACT AND WIRING UNCOVERED BY DEMOLITION.
4. ALL REMAINING JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE AS PER NATIONAL ELECTRICAL CODE (N.E.C.). THE CONTRACTOR SHALL MOVE EXISTING BOXES, ETC. AS REQUIRED BY NEW CONSTRUCTION.
5. ALL MATERIALS REMOVED REMAIN THE PROPERTY OF THE OWNER. IF THE OWNER CHOOSES TO DISCARD THESE MATERIALS, CONTRACTOR SHALL DISPOSE OF THE UNWANTED MATERIAL.
6. CONTRACTOR SHALL IDENTIFY AND VERIFY EACH CIRCUIT.
7. ALL UNUSED WIRING SHALL BE REMOVED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

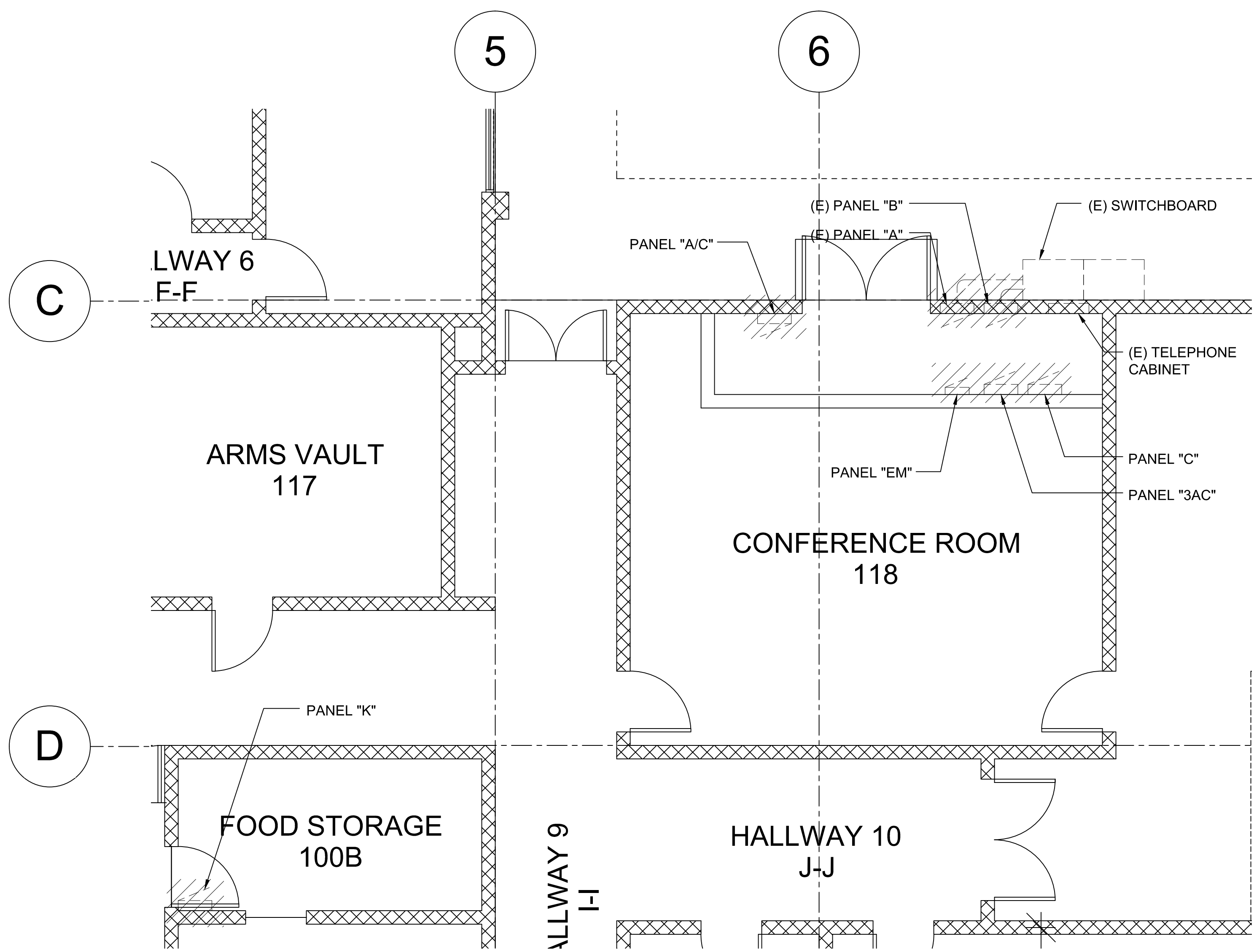
ELECTRICAL LEGEND

SYMBOLS			DESCRIPTION
EXIST	NEW	MTG HT	
		-	PANELBOARD
			REMOVE EXISTING FEEDER, BRANCH CIRCUIT, OR EQUIPMENT
			EXPOSED RACEWAY, PROVIDED STRAP 8'-0" ON CENTER MAX
			TELEPHONE CABINET

CONSTRUCTION DOCUMENTS

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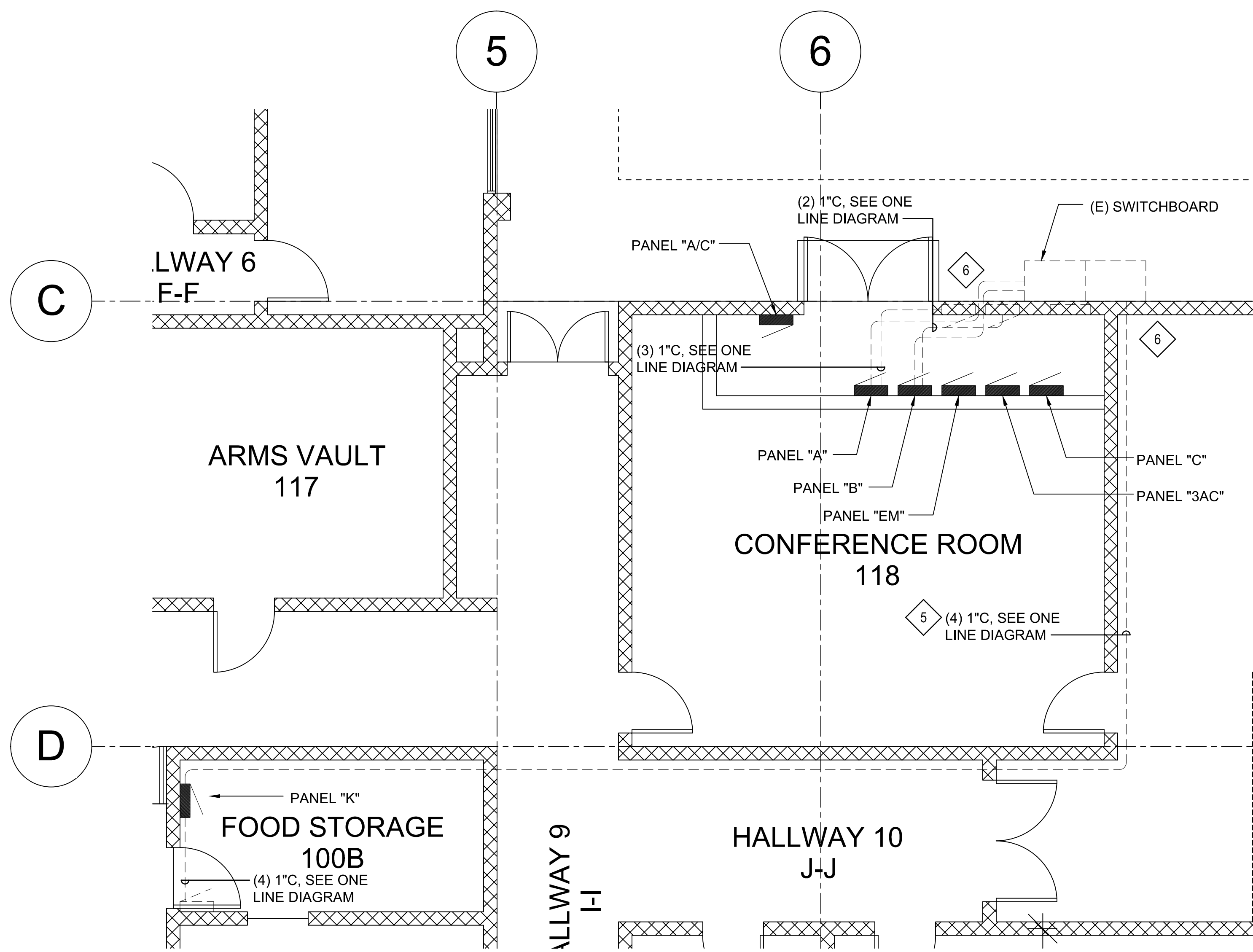


NOTES:

1. REMOVE EXISTING PANELS "EM", "3AC", "AC" AND "C" AND ASSOCIATED COMPONENTS INCLUDING BUT NOT LIMITED TO FRAMING, WIRING AND CIRCUIT BREAKERS IN EXISTING ELECTRICAL ROOM. ALL ACTIVE CONDUITS, FEEDERS AND BRANCH CIRCUITS SHALL REMAIN FOR RECONNECTION. REPAIR ALL OPENINGS AFTER PANELS AND FRAMES ARE REMOVED.
2. CONVERT EXISTING PANELS "A" AND "B" IN EXISTING ELECTRICAL ROOM TO JUNCTION BOXES "A" AND "B". REMOVE EXISTING FEEDERS BACK TO SWITCHBOARD. BRANCH CIRCUITS SHALL REMAIN FOR RECONNECTION.
3. REMOVE EXISTING PANEL "K" IN EXISTING FOOD SERVICE ROOM 100B. ALL FEEDERS AND BRANCH CIRCUITS SHALL REMAIN FOR RECONNECTION.
4. PHASE WORK SUCH THAT ALL ELECTRICAL OUTAGES ARE LIMITED TO WEEKENDS ONLY. COORDINATE OUTAGES WITH CBOC STAFF AND PROVIDE A MINIMUM OF 1 WORKING DAY NOTICE PRIOR TO THE OUTAGE. THE OUTAGE NOTICE, AT A MINIMUM, SHALL INDICATE THE AREAS AND OUTLETS THAT WILL BE AFFECTED. PROVIDE TEMPORARY POWER TO LOADS THAT MUST REMAIN ENERGIZED DURING THE OUTAGE.

ELECTRICAL FLOOR PLAN - DEMO WORK  
(ROOM 118 AND ROOM 100B)

1  
E101 SCALE: 1/4" = 1'-0"

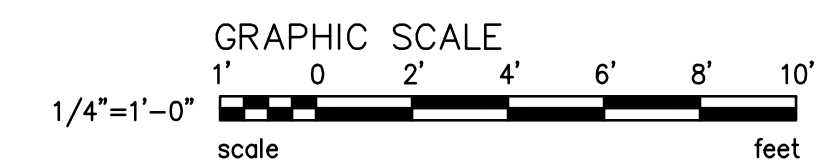


NOTES:










1. PROVIDE NEW PANELS AND RECONNECT EXISTING CONDUITS, FEEDERS AND BRANCH CIRCUITS TO NEW PANELS.
2. PROVIDE NEW FEEDERS TO PANELS "A" AND "B" FROM EXISTING SWITCHBOARD. PROVIDE NEW BRANCH CIRCUITING FROM THE PANELS TO JUNCTION BOXES "A" AND "B" TO RECONNECT THE EXISTING BRANCH CIRCUITS. ALL BRANCH CIRCUIT SPLICES SHALL BE MADE IN JUNCTION BOXES "A" AND "B".
3. ALL NEW PANELS SHALL BE SURFACE MOUNTED, NEMA 4X RATED, STAINLESS STEEL AND MOUNTED TO EXISTING GYPBOARD WALL.
4. PROVIDE ARC FLASH LABELS ON NEW ELECTRICAL PANELS IN ACCORDANCE WITH NEC
5. ROUTE EXPOSED CONDUIT AS HIGH AS PRACTICABLE TO CONCRETE CEILING.
6. CORE THROUGH WALL. AVOID PENETRATING THROUGH REINFORCING STEEL. PATCH AND SEAL ALL OPENINGS TO MATCH EXISTING.

ELECTRICAL FLOOR PLAN - NEW WORK  
(ROOM 118 AND ROOM 100B)

2  
E101 SCALE: 1/4" = 1'-0"

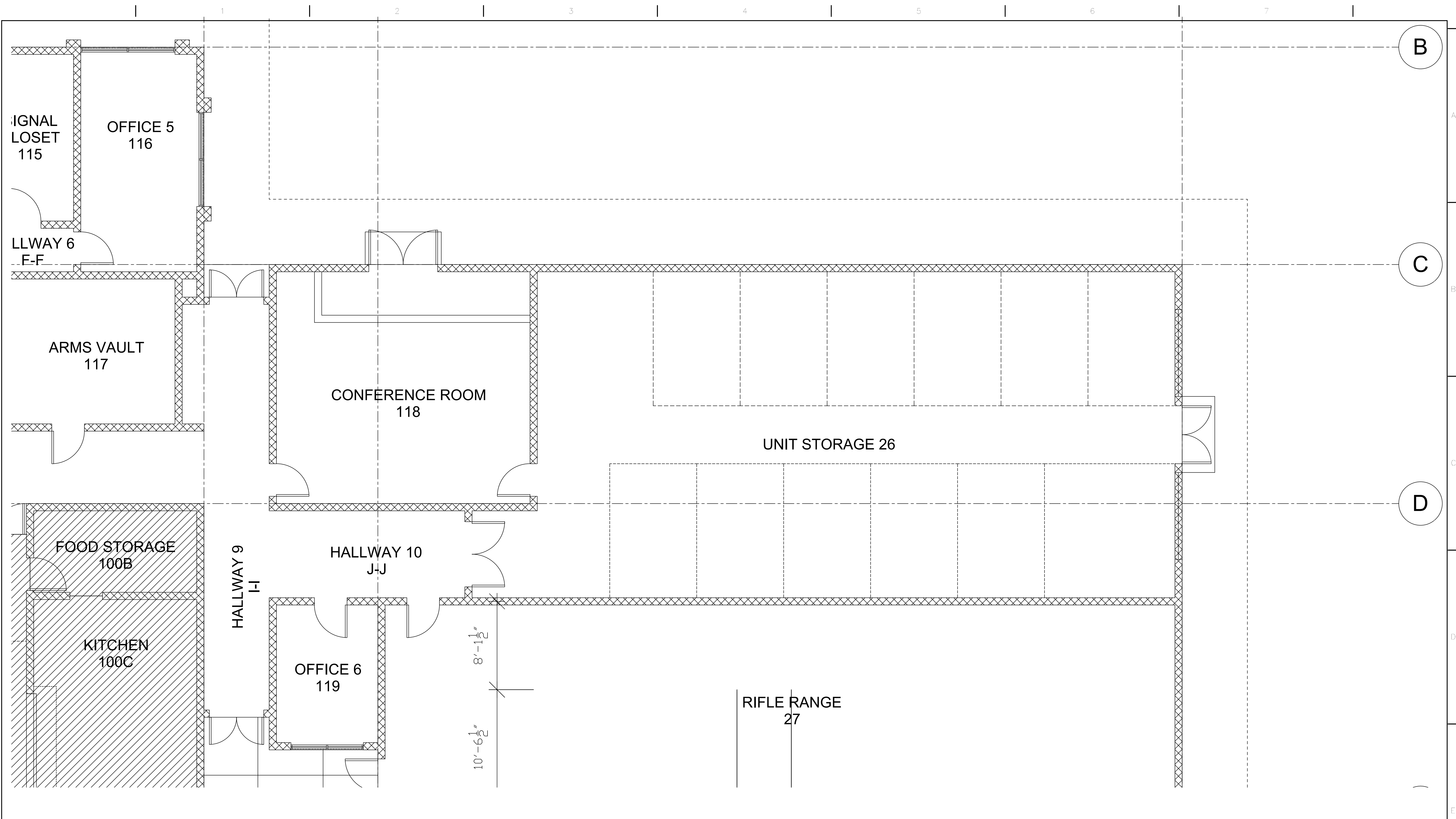


CONSTRUCTION DOCUMENTS

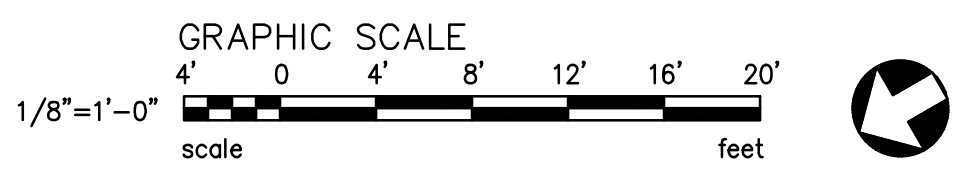
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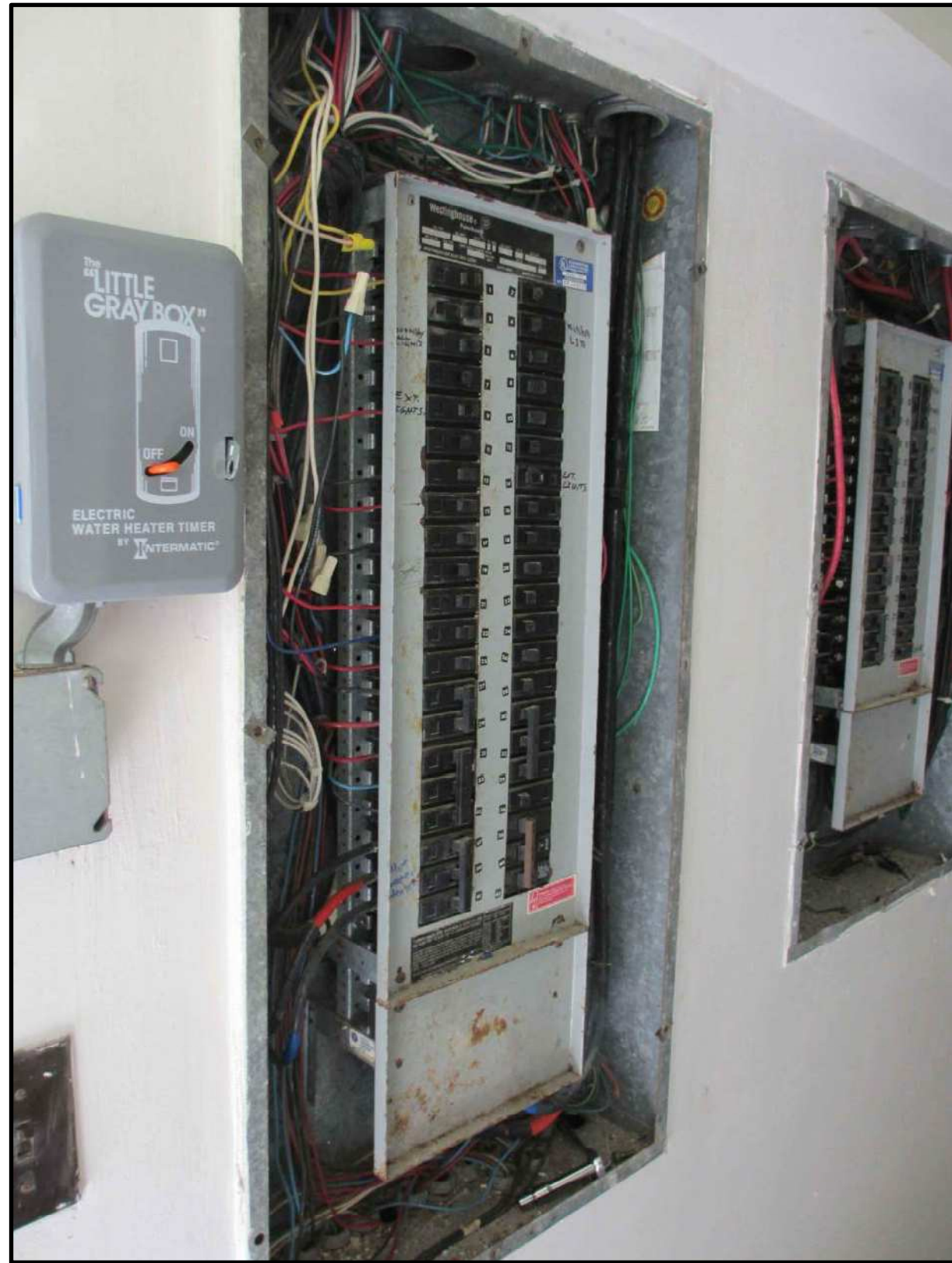
1  
E101  
ENLARGED ELECTRICAL ROOM PLAN  
SCALE: 1/8" = 1'-0"



CONSTRUCTION DOCUMENTS

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	#	Revision Description	Date																		
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1 PANEL A AND PANEL B  
E501 NO SCALE



2 PANEL C  
E501 NO SCALE



3 PANEL 3 AC  
E501 NO SCALE



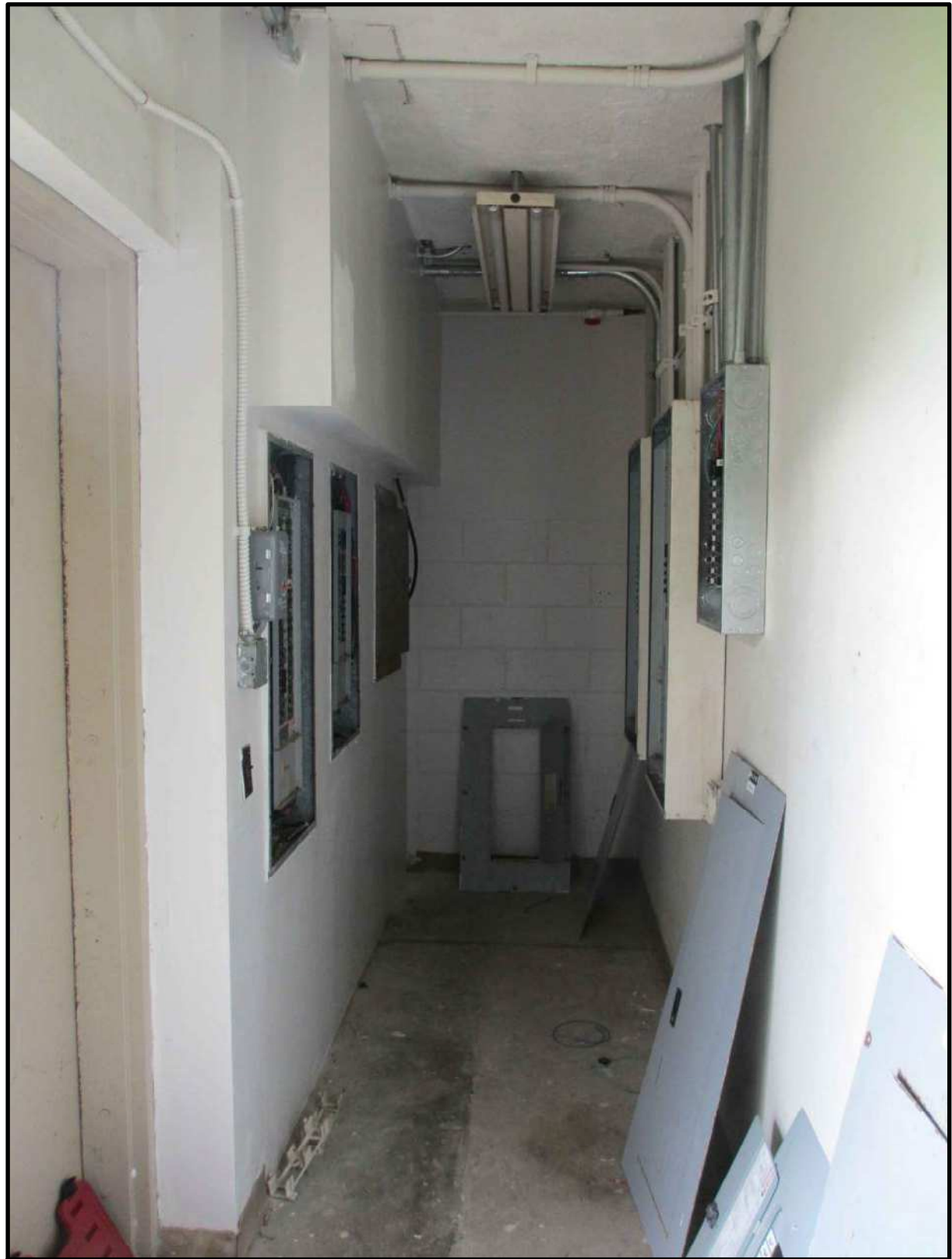
4 PANEL A/C  
E501 NO SCALE



5 PANEL EM  
E501 NO SCALE



6 PANEL K  
E501 NO SCALE



7 EXISTING ELECTRICAL ROOM  
E501 NO SCALE

CONSTRUCTION DOCUMENTS

#	Revision Description	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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Chris D. Kuramoto  
Expiration Date of the License: 4/30/2016

CHEIS D. KURAMOTO  
LICENSED PROFESSIONAL ENGINEER  
No. 12664-E  
HAWAII, U.S.A.

Drawing Title	DETAILS
Approved: Project Director	

Project Title	REPLACE AMERICAN SAMOA ELECTRIC PANELS
Location	
Date	5/15/2015
Checked By	CK
Drawn	ISE

Project Number	459-15-108
Building Number	
Drawing Number	E501
Dwg. of	

Office of Construction and Facilities Management

Department of Veterans Affairs

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A  
B  
C  
D  
E